



Syntho-Glass®

Syntho-Glass® is a patented fiberglass pre-impregnated composite that is activated by saltwater or freshwater. When used with the appropriate primary sealant, it can repair and reinforce virtually any pipe in minutes. Syntho-Glass® not only restores a pipe to its original pressure rating, it can make the repair area stronger than the original pipe.

Syntho-Glass® is a versatile solution for situations in which swift repair is critical. With an initial setting time of only 30 minutes (75°F/24°C), Syntho-Glass® provides superior, rapid repair on copper, steel, stainless steel, PVC, FRP, clay, concrete, and rubber pipe. Designed to be inherently safe, it is nontoxic, noncombustible, and odorless.

This repair system also is easy to install. The Syntho-Glass® installation kit delivers all the components needed for a repair and arrives on site packaged in a hermetically sealed foil pouch, ready to use without any measuring or mixing.

Applications

- Impact protection
- Emergency repair
- Corroded pipes
- Irregular pipe fittings
- Force mains and gravity lines
- Joint and tee repair
- Underwater repair and splash zone

Features

- Supplied as a complete kit
- Quick and easy installation
- Excellent adhesion to many substrates
- Good chemical resistance range

BENEFITS:

- Ready to use
- No mixing or mess
- Needs no special tools
- Environmentally safe
- No VOCs
- Delivers simple, effective, durable repair/restoration
- Completely cures in minutes



QUALIFICATION DATA

CHEMICAL	NO EFFECT
Sulfuric Acid 50%	✓
Hydrochloric Acid 50%	✓
Sodium Hydroxide Solution 20%	✓
Gasoline	✓
Toluene	✓
Xylene	✓
Mineral Spirits	✓
Distilled Water	✓

TEMPERATURE VS. TIME

AVERAGE TEMPERATURE	APPROXIMATE WORK TIME	RETURN TO SERVICE TIME
95°F (35°C)	3 minutes	23 minutes
70°F (21°C)	8 minutes	28 minutes
60°F (16°C)	10 minutes	1 hour 25 minutes
50°F (10°C)	14 minutes	2 hours 42 minutes
42°F (6°C)	17 minutes	3 hours 2 minutes
35°F (2°C)	20 minutes	6 hours 21 minutes

PROPERTY	METHOD	RESULT (CIRCUMFERENTIAL DIRECTION)
Tensile Strength	ASTM D638	36,000 psi (2,482.1 bar)
Lap Shear Strength	ASTM D5379	900 psi (62.05 bar)
Flexural Strength	ASTM D 790	26,100 psi (1,799.53 bar)
Dielectric Strength	ASTM D149	16,000 Volts
Impact Resistance	ASTM G14/G62	123 ft. lb (167 j)

Warranty: ClockSpring|NRI routinely implements product improvements. Please contact your local distributor or office for the most current product specifications. ClockSpring|NRI warrants the quality of this product when used according to directions.



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